

Harlow, Donald G

From: Venetz, Theodore J
Sent: Tuesday, September 25, 2012 4:04 PM
To: Rosenkrance, Chelsea L
Subject: FW: AY102 sample update

From: Boomer, Kayle D
Sent: Monday, August 13, 2012 2:46 PM
To: Venetz, Theodore J; Engeman, Jason K
Subject: FW: AY102 sample update

From: Rice, Andrew D
Sent: Monday, August 13, 2012 2:01 PM
To: McKinney, Steve G; Washenfelter, Dennis J; Boomer, Kayle D; Levy, Gregery
Cc: Renberger, Duane L; Prilucik, John R; Johnson, Jo M; Ritenour, Gerald P; Hansen, Daniel R; Watts, Heather D; Anderson, Brian P; Noyes, Gary W
Subject: RE: AY102 sample update

Appended below are the preliminary results for the AY-102 Annulus sample collected and delivered to the 222-S laboratory on Friday, 8/10/2012.

These results represent the amount of each nuclide that could be acid leached from one portion of the duct tape sample.

Nuclide	Result each (μCi)	MDA (μCi)	Comments
Cs-137	3.9E+00	9.8E-04	Gamma spectroscopy
Sr-90	1.0E-01	4.1E-03	Separation and beta count
Pu-239/240	4.1E-05	2.1E-05	Separation and alpha spectroscopy
Am-241	1.6E-04	8.3E-06	Separation and alpha spectroscopy

No isotopes of curium were detected.

It should be observed that the Pu/Am results are near the detection limit, and therefore will lack precision. It may be possible to improve these results by analyzing a larger aliquot of digest.

Please note that this is preliminary data and could change upon further review.

Let me know if you have any questions.

Andy Rice
 Radiochemistry Manager 222-S
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